

Comparisons of Job Characteristics

Focus Occupation: Industrial Engineering Technicians (17-3026)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 81

Focus Occupation: Industrial Engineering Technicians (17-3026)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|---|
| Production and Processing | 6.0 | 17.4 | 18.0 | 0 Current knowledge level may be sufficient |
| Administration and Management | 8.4 | 14.0 | 10.8 | << Extensive education and/or training may be required |
| Education and Training | 9.2 | 11.1 | 12.3 | > Current knowledge level is likely sufficient |
| Mechanical | 6.8 | 10.9 | 11.5 | 0 Current knowledge level may be sufficient |
| Mathematics | 9.2 | 10.6 | 15.6 | >> Current knowledge level is likely more than sufficient |
| Personnel and Human Resources | 5.6 | 10.2 | 7.8 | << Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Industrial Engineering Technicians (17-3026)

Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|---|
| Time Management | 8.9 | 12.6 | 9.1 | << Extensive development of skills in this area may be required |
| Coordination | 9.1 | 12.0 | 9.7 | < A higher skill level may be required |
| Management of Personnel Resources | 6.9 | 11.8 | 7.3 | << Extensive development of skills in this area may be required |
| Negotiation | 6.8 | 9.8 | 8.3 | < A higher skill level may be required |
| Management of Material Resources | 3.7 | 5.8 | 3.5 | << Extensive development of skills in this area may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 91 | | | |
|---|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Industrial Engineering Technicians (17-3026) Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
| Oral Expression | 12.4 | 14.0 | 13.2 | 0 | Current ability level may be sufficient |
| Oral Comprehension | 12.5 | 13.3 | 13.6 | 0 | Current ability level may be sufficient |
| Written Comprehension | 11.0 | 12.2 | 12.3 | 0 | Current ability level may be sufficient |
| Problem Sensitivity | 11.1 | 12.1 | 12.5 | 0 | Current ability level may be sufficient |
| Deductive Reasoning | 10.6 | 11.4 | 12.8 | > | Current ability level is likely sufficient |
| Speech Clarity | 10.2 | 11.0 | 11.0 | 0 | Current ability level may be sufficient |
| Written Expression | 9.8 | 11.0 | 11.5 | 0 | Current ability level may be sufficient |
| Inductive Reasoning | 10.2 | 10.7 | 12.5 | > | Current ability level is likely sufficient |
| Originality | 7.6 | 9.7 | 10.7 | > | Current ability level is likely sufficient |
| Fluency of Ideas | 7.6 | 9.1 | 10.4 | > | Current ability level is likely sufficient |
| Perceptual Speed | 7.4 | 8.4 | 9.3 | > | Current ability level is likely sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 66 |
|---|-------------------------|---|
| Focus Occupation: Industrial Engineering Technicians (17-3026) Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) | | |
| Work Activities | Exclusivity of Activity | |
| Communicate technical information | 4 | |
| Estimate materials or labor requirements | 61 | |
| Read blueprints | 10 | |
| Read technical drawings | 7 | |
| Schedule employee work hours | 60 | |
| Understand technical operating, service or repair manuals | 6 | |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Tools and Technologies that Both Occupations Have in Common | Similarity of Focus Occupation to Associated Occupation: 54 |
|---|---|
|---|---|

Focus Occupation: Industrial Engineering Technicians (17-3026)
Associated Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

| Tools and Technologies | Exclusivity |
|--|--------------------|
| Business function specific software | 1 |
| Computer printers | 2 |
| Computers | 1 |
| Content authoring and editing software | 1 |
| Data management and query software | 1 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.